

INTERNATIONAL SEARCH REPORT

International application No.

PCT/JP03/14939

A. CLASSIFICATION OF SUBJECT MATTER

Int.Cl⁷ H04M3/00, 3/42, 11/00

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

Int.Cl⁷ H04M3/00, 3/42, 11/00

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Jitsuyo Shinan Koho	1922-1996	Toroku Jitsuyo Shinan Koho	1994-2004
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Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	JP 2001-285476 A (Fujitsu Ltd.), 12 October, 2001 (12.10.01), Full text	1, 3-6, 9, 11, 12, 13-15, 18, 20-23
A	& US 2001/0026545 A1	2, 7, 8, 10, 16, 17, 19
Y	JP 10-191434 A (NEC Corp.), 21 July, 1998 (21.07.98), Par. Nos. [0035] to [0046]; Figs. 3 to 6	1, 3-6, 9, 11, 12, 13-15, 18, 20-23
A	& EP 0851702 A2 & US 6018573 A	2, 7, 8, 10, 16, 17, 19
Y	JP 05-050854 U (Tamura Electric Works, Ltd.), 02 July, 1993 (02.07.93), Abstract; Claim 1; Fig. 1 (Family: none)	4, 13, 21

☒ Further documents are listed in the continuation of Box C.☐ See patent family annex.

* Special categories of cited documents:	"T" later document published after the international filing date or priority date and not in conflict with the application but cited to
"A" document defining the general state of the art which is not	understand the principle or theory underlying the invention
considered to be of particular relevance	document of particular relevance; the claimed invention cannot be
"E" earlier document but published on or after the international filing	considered novel or cannot be considered to involve an inventive
date	step when the document is taken alone
"I" document which may throw doubts on priority claim(s) or which is	document of particular relevance; the claimed invention cannot be
cited to establish the publication date of another citation or other	considered to involve an inventive step when the document is
special reason (as specified)	combined with one or more other such documents, such
"O" document referring to an oral disclosure, use, exhibition or other	combination being obvious to a person skilled in the art
means	document member of the same patent family
"P" document published prior to the international filing date but later	
than the priority date claimed	

Date of the actual completion of the international search
16 March, 2004 (16.03.04)Date of mailing of the international search report
30 March, 2004 (30.03.04)Name and mailing address of the ISA/
Japanese Patent Office

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C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y A	JP 2001-292480 A (Hitachi Telecom Technologies, Ltd.), 19 October, 2001 (19.10.01), Full text; Fig. 1 (Family: none)	6, 15, 23 7, 8, 16, 17
A	JP 07-170570 A (NEC Corp.), 04 July, 1995 (04.07.95), (Family: none)	7, 8, 16, 17
A	JP 11-088331 A (Toshiba Corp.), 30 March, 1999 (30.03.99), (Family: none)	7, 8, 16, 17
A	JP 2003-018627 A (NEC Corp.), 17 January, 2003 (17.01.03), & GB 2377136 A & US 2003/0003869 A1	7, 8, 16, 17